

## CAPILLARY ARRAY-BASED SAMPLE SCREENING

### ABSTRACT OF THE INVENTION

A sample screening platform, system and method for screening and recovery of detectable samples. The platform includes a capillary array including a plurality of capillaries. Each capillary includes at least one wall defining a lumen for retaining the detectable sample. The detectable sample is introduced to and retained in the lumen by capillary forces. In a method of incubating the sample, a second liquid is introduced into the capillary containing the sample. A detection and recovery system includes an optical system for detecting the sample, and a recovery mechanism adapted to contact a capillary containing the sample. The recovery mechanism is further adapted to recover the sample from the capillary, and expel the recovered sample for analysis.

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